

Dokuchayev, V. P.

ON THE BUILD-UP OF MAGNETOHYDRODYNAMIC WAVES IN A PLASMA MOVING THROUGH AN IONIZED GAS (O Narastani Magnitogidrodinamicheskiikh Voln v Potoke Plazmy, Dvizhushchaysya Cherez Ionizirovanny Gas) tr. by A. Pingell. 4 Jan 61 [5]p. 8 refs. N R L Trans. no. 832.

Order from LC or SLA mi\$1.80, ph\$1.80 61-15725

Trans. of *Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki (USSR) 1960, v. 39, no. 2(8) p. 413-415.

A dispersion equation is derived which describes the propagation of electromagnetic waves in plasma moving through an ionized gas. The case of low frequencies (below the gyrofrequency of the ions), when the waves degenerate into magnetodynamic waves, is considered in detail. It is shown that if the velocity of the flow exceeds the Alfvén wave velocity in the flowing and stationary plasma system, the latter becomes unstable. In this case one of the normal waves begins to build up. (Author)

61-15725

1. Magnetohydrodynamic waves--Physical factors
2. Plasma (Physics)
3. Gas ionization
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- II. NRL Trans-832
- III. Naval Research Lab., Washington, D. C.

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(Physics--Theoretical,
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(NY-5230/RF5)

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